

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: D. Abel, J. Aloï, M. Sullivan	Point Value → Parameter ↓	1	2	3	4	5
Job Title: <i>Radioactive and Mixed Waste Generation</i> Job Number or Job Identifier: LS-JRA-0027	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Generating Radioactive and Mixed Waste	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): PRM & SA Hazardous Waste and Radioactive Waste Generation	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: W. R. Casey Date: 10/24/05 Rev. #:1 Revision Log	Stressors (if applicable, please list all):		Reason for Revision (if applicable):		Comments:	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Storing containers of mixed waste in a SAA and 90-Day Area	SPILL: due to container failure may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source or chemical reaction	N	1	4	4	5	80	Segregation of incompatibles, chemical storage cabinets, PPE, work planning/experimental review, ventilation, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container	1	4	3	2	24							

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								labeling, area posting, shelf-life monitoring, containers specific for the hazard and operation, training, applicable subject areas, SAA monthly checklist, material substitution												
	SPILL: due to container failure may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	chemical storage cabinets, work planning/experimental review, ventilation, secondary containment, use of safer substitutes, Tier 1 inspections, container labeling, area posting, shelf-life monitoring, containers specific for the hazard and operation, training, applicable subject areas, PPE, SAA monthly checklist, material substitution	1	4	3	2	24							
	Reaction: Chemical reaction of hazardous materials stored in a refrigerator during a power failure	N	1	1	4	3	12	Emergency power generator, work planning/experimental review, use of safer substitutes, Tier 1 inspections, container labeling, area posting, shelf-life monitoring, containers specific for the hazard and operation, training, applicable subject areas, PPE, secondary containment, SAA monthly checklist, material substitution	1	1	3	2	6							
	Radiation exposure and contamination from spill							See LS-JRA-0023												

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Moving containers of mixed waste from SAA to 90-Day Area	SPILL: due to dropping container may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source	N	1	4	4	5	80	work planning/experimental review, spill response, Tier 1 inspections, container labeling, containers specific for the hazard and operation, training, applicable subject areas, secondary containment, material substitution	1	4	3	3	36							
	SPILL: due to dropping container may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	work planning/experimental review, PPE, spill response, Tier 1 inspections, container labeling, containers specific for the hazard and operation, training, applicable subject areas, secondary containment, material substitution	1	4	3	3	36							
	Radiation exposure and contamination from spill							See LS-JRA-0023												
Adding Mixed Waste to a SAA container	SPILL: due to dropping container may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source	N	1	4	4	5	80	spill pads, work planning/experimental review, PPE, use of small volumes, fume hood, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, containers specific for the hazard and operation, applicable subject areas, material substitution	1	4	3	3	36							

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	SPILL: due to dropping container may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	spill pads, work planning/experimental review, PPE, use of small volumes, fume hood, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, containers specific for the hazard and operation, applicable subject areas, material substitution	1	4	3	3	36							
	Exposure to toxic materials including inhalation, absorption, ingestion and injection	N	1	4	4	5	80	work planning/experimental review, PPE, use of small volumes, fume hood, use of safer substitutes, container labeling, area posting, applicable subject areas, area and/or personnel monitoring, material substitution	1	4	2	3	24							
	Exothermic reaction from mixing incompatibles	N	1	4	4	5	80	work planning/experimental review, PPE, use of small volumes, use of safer substitutes, container labeling, area posting, reactions vessels specific for the hazard, applicable subject areas, material substitution	1	4	4	3	48							
	Radiation exposure and contamination from spill							See LS-JRA-0023												
Radioactive Waste Handling	Radiation exposure and contamination							See LS-JRA-0023												

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Material handling - manual	See LS-JRA-0018																					
Material handling - mechanical	See LS-JRA-0019																					
*Risk:	0 to 20 Negligible	21 to 40 Acceptable						41-60 Moderate					61 to 80 Substantial					81 or greater Intolerable				